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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12827A LANCE, MISSILE NUMBER 4444, ROUND NUMBER 318 NPL (25 AUG--ETC(U))
SEP 78

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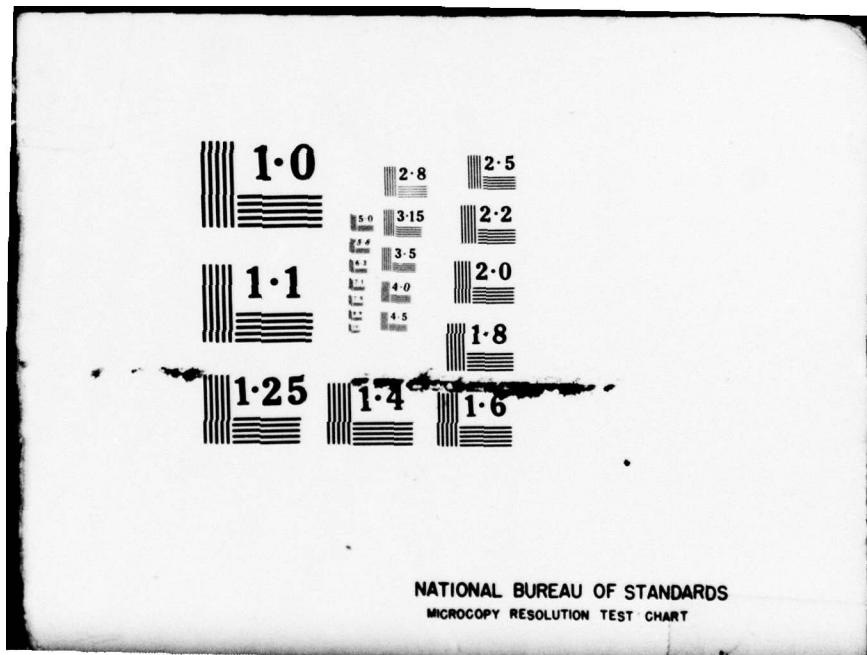
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⑫ LEVEL II
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⑨ METEOROLOGICAL DATA REPORT

⑥ 12827A LANCE
MISSILE NO. 4444, ROUND NO. 318 NPL
(25 AUGUST 1978)

BY

WSMR METEOROLOGICAL TEAM

⑪ Sep 78

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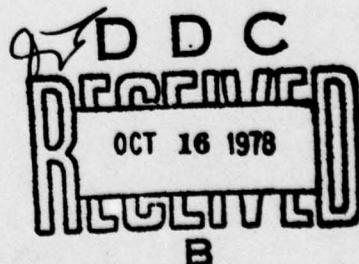
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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Metereological data gathered for the launching of 12827A Lance, Missile Number 4444, Round Number 318 NPL, are presented in tabular form.		

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INTRODUCTION

12827A Lance, Missile Number 4444, Round Number 318 NPL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0837 HRS MDT, 25 August 1978. The scheduled launch time was 0830 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,977.30	FEET/MSL
PRESSURE	884.2	MBS
TEMPERATURE	20.5	°C
RELATIVE HUMIDITY	83	%
DEW POINT	17.5	°C
DENSITY	1,040	GM/M ³
WIND SPEED DIR.	CALM	
CLOUD COVER	9 1	Sc Ac

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33
0840 HRS MDT/25 AUGUST 1978

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM	1	2100	210	04.5
100	CALM		2200	212	05.0
200	CALM		2300	216	05.5
300	127	00.5	2400	220	06.0
400	209	01.0	2500	219	06.5
500	292	01.0	2600	218	06.5
600	014	00.5	2700	219	06.5
700	317	01.0	2800	220	06.5
800	259	01.0	2900	237	05.0
900	234	02.5	3000	254	03.5
1000	208	03.5	3100	243	04.0
1100	187	03.0	3200	254	03.5
1200	166	02.5	3300	263	04.5
1300	150	03.0	3400	272	05.0
1400	134	03.0	3500	271	05.0
1500	136	02.5	3600	269	04.5
1600	137	02.0	3700	273	04.5
1700	162	02.5	3800	277	04.0
1800	187	02.5	3900	276	04.5
1900	197	03.0	4000	274	05.0
2000	207	03.5	4100	278	05.0

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0825 HRS MDT/25 AUGUST 1978
12827A LANCE, MISSILE NUMBER 4444, ROUND NUMBER 318 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.30

APPROXIMATELY: 1/4 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	281	04.5	6700	040	03.5
4300	291	04.5	6800	054	03.0
4400	301	04.0	6900	051	04.0
4500	307	04.5	7000	048	05.0
4600	313	05.0	7100	053	05.5
4700	317	05.0	7200	058	06.0
4800	320	04.5	7300	058	06.5
4900	326	05.0	7400	058	07.0
5000	332	05.0	7500	051	06.0
5100	324	05.5	7600	043	05.0
5200	316	06.0	7700	035	05.0
5300	315	06.0	7800	027	05.0
5400	314	06.0	7900	031	05.5
5500	315	06.0	8000	034	05.5
5600	315	06.0	8100	022	05.0
5700	323	05.0	8200	009	04.0
5800	330	04.0	8300	005	04.0
5900	337	03.5	8400	360	04.0
6000	333	03.0	8500	355	04.5
6100	353	02.5	8600	349	05.0
6200	013	01.5	8700	341	04.5
6300	013	02.5	8800	333	04.0
6400	012	03.0	8900	350	05.0
6500	019	03.5	9000	007	05.5
6600	026	03.5			

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	CALM		2100	240	06.0
100	CALM		2200	241	06.0
200	CALM		2300	241	07.0
300	032	00.5	2400	241	08.0
400	018	01.0	2500	236	07.0
500	091	01.5	2600	230	06.0
600	164	02.0	2700	247	06.0
700	097	02.0	2800	263	06.0
800	029	01.5	2900	268	04.5
900	305	01.5	3000	272	03.0
1000	220	01.5	3100	279	04.0
1100	205	02.0	3200	285	04.5
1200	189	02.5	3300	277	04.0
1300	214	02.0	3400	268	03.5
1400	238	01.5	3500	308	03.0
1500	299	01.0	3600	347	02.0
1600	360	00.5	3700	340	04.0
1700	300	01.5	3800	333	05.5
1800	239	02.5	3900	329	05.5
1900	239	04.5	4000	325	05.0
2000	238	06.0	4100	339	05.0

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 0840 HRS MDT/25 AUGUST 1978
12827A LANCE, MISSILE NUMBER 4444, ROUND NUMBER 318 NPL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3,977.30

APPROXIMATELY: 1/4 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	352	04.5	6600	032	06.5
4300	343	05.0	6700	055	06.0
4400	333	05.5	6800	077	05.5
4500	317	07.0	6900	080	04.5
4600	301	08.0	7000	082	03.0
4700	320	08.5	7100	065	05.0
4800	339	09.0	7200	047	07.0
4900	338	07.5	7300	049	07.0
5000	337	05.5	7400	050	07.0
5100	327	06.0	7500	039	06.5
5200	316	06.0	7600	027	05.5
5300	322	05.5	7700	045	04.5
5400	328	05.0	7800	063	03.5
5500	333	05.0	7900	037	04.0
5600	337	04.5	8000	011	04.5
5700	346	03.5	8100	006	06.0
5800	355	02.0	8200	001	07.5
5900	043	01.5	8300	339	07.0
6000	090	01.0	8400	316	06.0
6100	052	02.5	8500	347	07.0
6200	014	03.5	8600	018	07.5
6300	033	05.5	8700	346	06.0
6400	051	07.5	8800	314	04.0
6500	042	07.0	8900	325	04.0

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	335	03.5
9100	006	03.0
9200	036	02.0
9300	357	03.0
9400	317	04.0
9500	001	02.5
9600	045	00.5
9700	031	03.5
9800	016	06.0
9900	003	07.5
10000	350	09.0
10100	355	08.5
10200	359	07.5
10300	358	06.0
10400	356	04.5
10500	349	05.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
10600	341	05.5
10700	026	04.5
10800	071	03.5
10900	038	03.0
11000	005	02.5
11100	327	02.0
11200	288	01.5
11300	339	02.0
11400	030	02.5
11500	084	05.0
11600	137	07.0
11700	140	08.0
11800	142	09.0
11900	138	08.0
12000	134	06.5

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4051.00 FEET MSL
25 AUG. 78 0730 HRS MDT
ASCENSION NO. 100

SIGNIFICANT LEVEL DATA
2370030100
JALLEN
TABLE IV.

GEODETIC COORDINATES
33.16712 LAT D
106.49511 LON D

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
880.8	4051.0	17.2	97.0
870.8	4371.1	17.1	
850.0	5044.2	15.5	
700.0	10367.9	8.2	
596.6	14631.0	-1.5	
543.8	17047.7	-4.3	
500.0	19206.1	-8.2	
453.7	21662.8	-13.2	
440.4	22408.8	-12.6	
400.0	24795.7	-18.8	
387.2	25590.6	-20.3	
336.6	28957.3	-27.2	
300.0	31649.4	-34.0	
269.8	34065.4	-40.1	
250.0	35762.7	-44.5	
200.0	40557.8	-56.4	
177.8	42995.6	-60.6	
174.2	43416.5	-59.4	
150.0	46479.6	-62.7	
146.3	46987.9	-62.1	
126.2	49950.0	-69.2	
117.2	51406.3	-69.6	
107.1	53167.9	-72.1	
100.0	54513.9	-68.1	
92.2	56115.1	-70.2	
70.0	61629.5	-62.0	
62.3	64024.1	-59.4	
50.0	68563.1	-60.3	
34.9	76020.3	-57.5	
30.0	79217.7	-52.4	

STATION ALTITUDE 4051.00 FEET MSL
25 AUG. 78 0730 HRS MDT
ASCENSION NO. 100

SIGNIFICANT LEVEL DATA
2370030100
JALLEN
TABLE IV. (CONT)

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL.HUM. PERCENT
21.9	86001.8	-49.0		

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

STATION ALTITUDE 4051,00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V.

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION	
4051.0	880.8	17.2	16.7	97.0**	1048.1	666.6	0	1.000319	
4500.0	866.8	16.8			1041.4	663.4	1.5	1.000232	
5000.0	851.4	15.6			1027.1	662.0	3.1	1.000229	
5500.0	836.0	14.9			1011.1	661.2	4.7	1.000225	
6000.0	820.9	14.2			995.2	660.4	5.8	1.000222	
6500.0	806.0	13.5			979.6	659.6	6.2	1.000218	
7000.0	791.5	12.8			964.2	658.8	6.5	1.000215	
7500.0	777.2	12.1			949.0	658.0	7.0	1.000211	
8000.0	763.1	11.4			934.1	657.2	6.9	1.000208	
8500.0	749.3	10.8			919.5	656.4	6.5	1.000205	
9000.0	735.8	10.1			905.0	655.6	5.1	1.000202	
9500.0	722.5	9.4			890.8	654.8	3.3	1.000198	
10000.0	709.5	8.7			876.9	654.0	220.9	1.3	1.000195
10500.0	696.5	7.9			863.3	653.2	358.3	1.4	1.000192
11000.0	683.6	6.9			850.3	652.0	13.2	3.9	1.000189
11500.0	670.9	5.9			837.4	650.8	11.3	6.2	1.000187
12000.0	658.5	4.9			824.8	649.7	10.4	8.3	1.000184
12500.0	646.2	3.9			812.4	648.5	9.9	9.8	1.000181
13000.0	634.2	3.0			800.2	647.3	10.5	10.5	1.000178
13500.0	622.4	2.0			788.2	646.2	13.1	9.7	1.000176
14000.0	610.9	1.0			776.4	645.0	23.5	9.4	1.000173
14500.0	599.5	-0.0			764.7	643.8	40.5	10.6	1.000170
15000.0	588.2	-0.9			752.7	642.8	36.6	11.9	1.000168
15500.0	577.0	-1.7			740.7	641.8	22.6	13.5	1.000165
16000.0	566.1	-2.6			728.8	640.8	10.4	12.5	1.000162
16500.0	555.3	-3.4			717.2	639.9	358.8	11.2	1.000160
17000.0	544.8	-4.2			705.7	638.9	20.5	7.2	1.000157
17500.0	534.3	-5.1			694.5	637.8	54.0	5.7	1.000155
18000.0	524.0	-6.0			683.4	636.7	63.5	5.6	1.000152
18500.0	513.9	-6.9			672.5	635.7	67.2	5.1	1.000150

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78 0730 HRS MDT
 ASCENSION NO. 100

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT.)

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
19000.0	504.0	-7.8	661.8	634.6	55.7	3.9	1.000147	
19500.0	494.2	-8.8	651.3	633.4	26.0	2.5	1.000145	
20000.0	484.5	-9.8	641.0	632.2	321.3	2.7	1.000143	
20500.0	475.1	-10.8	630.9	631.0	291.4	3.8	1.000141	
21000.0	465.8	-11.9	620.9	629.7	275.6	5.2	1.000138	
21500.0	456.6	-12.9	611.2	628.5	273.1	5.6	1.000136	
22000.0	447.6	-12.9	599.3	628.4	272.2	6.4	1.000133	
22500.0	438.8	-12.8	587.2	628.6	272.8	7.3	1.000131	
23000.0	430.0	-14.1	578.4	627.0	273.4	8.2	1.000129	
23500.0	421.4	-15.4	569.7	625.4	269.7	8.2	1.000127	
24000.0	413.0	-16.7	561.2	623.8	264.8	8.1	1.000125	
24500.0	404.8	-18.0	552.8	622.2	259.9	7.8	1.000123	
25000.0	396.7	-19.2	544.1	620.8	254.4	6.9	1.000121	
25500.0	388.6	-20.1	535.1	619.7	247.2	6.3	1.000119	
26000.0	380.7	-21.1	526.2	618.4	237.8	10.3	1.000117	
26500.0	372.8	-22.2	517.5	617.2	233.7	14.4	1.000115	
27000.0	365.2	-23.2	508.9	615.9	225.0	17.6	1.000113	
27500.0	357.6	-24.2	500.5	614.7	219.1	21.1	1.000111	
28000.0	350.3	-25.2	492.2	613.4	211.9	22.4	1.000110	
28500.0	343.1	-26.3	484.1	612.1	205.4	24.0	1.000108	
29000.0	336.0	-27.3	476.1	610.8	205.8	26.0	1.000106	
29500.0	328.9	-28.6	468.4	609.3	206.7	28.0	1.000104	
30000.0	321.9	-29.8	460.9	607.7	207.6	28.3	1.000103	
30500.0	315.4	-31.1	453.5	606.1	208.5	28.4	1.000101	
31000.0	308.4	-32.4	446.2	604.5	207.9	28.7	1.000099	
31500.0	301.9	-33.6	439.1	602.9	206.9	29.2	1.000098	
32000.0	295.4	-34.9	431.9	601.3	207.0	31.4	1.000096	
32500.0	289.0	-36.1	424.8	599.8	207.5	34.5	1.000095	
33000.0	282.7	-37.4	417.8	598.2	208.5	36.8	1.000093	
33500.0	276.6	-38.7	410.9	596.5	209.8	38.2	1.000092	

STATION ALTITUDE 4051.00 FEET MSL
25 AUG. 78
0730 HRS MDT
ASCENSION NO. 100

UPPER AIR DATA
2370030100
JALLEN (CONT)

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION
34000.0	270.6	-39.9	404.2	594.9	210.8	39.2	1.000090
34500.0	264.6	-41.2	397.4	593.3	211.4	39.5	1.000089
35000.0	258.7	-42.5	390.8	591.6	211.7	39.9	1.000087
35500.0	253.0	-43.8	384.3	590.0	210.9	40.9	1.000086
36000.0	247.3	-45.1	377.7	588.3	210.2	41.9	1.000084
36500.0	241.6	-46.3	371.0	586.7	209.4	41.6	1.000083
37000.0	236.0	-47.6	364.5	585.1	208.6	41.4	1.000081
37500.0	230.6	-48.8	358.1	583.5	208.6	42.5	1.000080
38000.0	225.3	-50.1	351.8	581.9	208.6	43.8	1.000078
38500.0	220.1	-51.3	345.6	580.3	209.9	45.9	1.000077
39000.0	215.0	-52.5	339.6	578.6	211.4	48.4	1.000076
39500.0	210.1	-53.8	333.6	577.0	213.5	49.9	1.000074
40000.0	205.3	-55.0	327.8	575.4	215.9	50.9	1.000073
40500.0	200.5	-56.3	322.1	573.7	218.3	51.3	1.000072
41000.0	195.8	-57.2	315.8	572.5	221.0	50.9	1.000070
41500.0	191.1	-58.0	309.5	571.4	223.8	50.6	1.000069
42000.0	186.6	-58.9	303.3	570.3	227.8	48.9	1.000068
42500.0	182.1	-59.7	297.3	569.1	232.0	47.5	1.000066
43000.0	177.8	-60.6	291.3	568.0	235.3	44.0	1.000065
43500.0	173.5	-59.5	282.9	569.5	238.7	39.7	1.000063
44000.0	169.3	-60.0	276.7	568.7	240.6	36.2	1.000062
44500.0	165.2	-60.6	270.8	568.0	240.0	33.3	1.000060
45000.0	161.2	-61.1	264.9	567.3	239.5	30.9	1.000059
45500.0	157.3	-61.6	259.2	566.6	239.3	29.7	1.000058
46000.0	153.6	-62.2	253.6	565.9	239.2	28.6	1.000056
46500.0	149.8	-62.7	248.0	565.2	240.4	24.6	1.000055
47000.0	146.2	-62.1	241.4	565.9	243.3	19.4	1.000054
47500.0	142.6	-63.3	236.8	564.3	247.3	14.3	1.000053
48000.0	139.4	-64.5	232.3	562.7	245.5	9.8	1.000052
48500.0	135.7	-65.7	227.9	561.1	240.5	5.2	1.000051

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78 0730 HRS MDT
 ASCENSION NO. 100

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT)

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT DEGREES	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	132.5	-66.9			223.5	559.5	219.6	3.6	1.000050
49500.0	129.1	-68.1			219.3	557.8	205.2	5.2	1.000049
50000.0	125.9	-69.2			215.0	556.3	197.9	7.0	1.000048
50500.0	122.7	-69.4			209.8	556.2	195.7	7.4	1.000047
51000.0	119.6	-69.5			204.7	556.0	194.1	7.5	1.000046
51500.0	116.6	-69.7			199.8	555.6	192.7	7.3	1.000044
52000.0	113.7	-70.4			195.4	554.7	191.9	5.7	1.000044
52500.0	110.8	-71.2			191.1	553.7	190.5	4.2	1.000043
53000.0	108.0	-71.9			187.0	552.7	197.3	2.8	1.000042
53500.0	105.3	-71.1			181.6	553.7	224.6	1.8	1.000040
54000.0	102.7	-69.6			175.7	555.8	272.5	1.7	1.000039
54500.0	100.4	-68.1			170.0	557.8	327.9	1.2	1.000038
55000.0	97.6	-68.7			166.3	557.0	16.6	2.0	1.000037
55500.0	95.1	-69.4			162.6	556.1	35.7	3.0	1.000036
56000.0	92.7	-70.0			159.1	555.2	51.2	3.9	1.000035
56500.0	90.4	-69.6			154.8	555.8	60.6	4.9	1.000034
57000.0	88.2	-68.9			150.4	556.8	60.4	6.0	1.000033
57500.0	86.0	-68.1			146.2	557.8	58.2	7.1	1.000033
58000.0	83.9	-57.4			142.1	558.8	56.8	8.1	1.000032
58500.0	81.8	-66.7			138.1	559.8	57.7	8.7	1.000031
59000.0	79.8	-65.9			134.2	560.8	58.4	9.4	1.000030
59500.0	77.9	-65.2			130.4	561.8	61.1	9.7	1.000029
60000.0	75.9	-64.4			126.7	562.8	65.8	9.7	1.000028
60500.0	74.1	-63.7			123.2	563.8	70.4	9.7	1.000027
61000.0	72.2	-62.9			119.7	564.8	75.8	9.3	1.000027
61500.0	70.5	-62.2			116.3	565.8	81.9	8.9	1.000026
62000.0	68.7	-61.6			113.2	566.6	87.2	8.8	1.000025
62500.0	67.1	-61.1			110.2	567.4	84.2	10.1	1.000025
63000.0	65.5	-60.5			107.3	568.1	81.8	11.4	1.000024
63500.0	63.9	-60.0			104.4	568.8	80.0	13.0	1.000023

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 76
 ASCENSION NO. 100 0730 HRS MDT

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT.)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	INDEX OF REFRACTION
64000.0	62.4	-59.4	101.7	569.5	78.8	14.9	1.000023
64500.0	60.9	-59.5	99.3	569.4	77.9	16.9	1.000022
65000.0	59.4	-59.6	96.9	569.3	80.7	16.2	1.000022
65500.0	58.0	-59.7	94.7	569.2	86.0	19.2	1.000021
66000.0	56.6	-59.8	92.4	569.0	90.8	20.3	1.000021
66500.0	55.3	-59.9	90.3	568.9	92.4	21.0	1.000020
67000.0	53.9	-60.0	88.1	568.8	92.7	21.6	1.000020
67500.0	52.6	-60.1	86.1	568.7	93.1	22.1	1.000019
68000.0	51.4	-60.2	84.1	568.5	93.8	21.1	1.000019
68500.0	50.2	-60.3	82.1	568.4	94.8	19.9	1.000018
69000.0	49.0	-60.4	80.1	568.6	95.8	18.6	1.000018
69500.0	47.8	-59.9	78.1	568.8	97.1	18.6	1.000017
70000.0	46.7	-59.8	76.2	569.1	98.5	18.6	1.000017
70500.0	45.5	-59.6	74.3	569.3	99.1	18.8	1.000017
71000.0	44.5	-59.4	72.5	569.6	97.1	19.9	1.000016
71500.0	43.4	-59.2	70.7	569.8	95.2	20.9	1.000016
72000.0	42.4	-59.0	68.9	570.1	93.4	21.6	1.000015
72500.0	41.4	-58.8	67.2	570.3	91.2	21.0	1.000015
73000.0	40.4	-58.6	65.6	570.6	88.9	20.4	1.000015
73500.0	39.4	-58.4	63.9	570.8	85.9	20.8	1.000014
74000.0	38.5	-58.3	62.4	571.1	82.3	23.0	1.000014
74500.0	37.6	-58.1	60.8	571.3	79.4	25.3	1.000014
75000.0	36.7	-57.9	59.3	571.6	78.9	27.6	1.000013
75500.0	35.8	-57.7	57.9	571.8	80.9	30.0	1.000013
76000.0	34.9	-57.5	56.4	572.1	82.5	32.5	1.000013
76500.0	34.1	-56.7	54.9	573.1	83.7	33.6	1.000012
77000.0	33.3	-55.9	53.4	574.2	84.8	33.4	1.000012
77500.0	32.5	-55.1	52.0	575.2	85.9	33.3	1.000012
78000.0	31.8	-54.3	50.6	576.3	86.1	33.9	1.000011
78500.0	31.0	-53.5	49.2	577.3	85.6	34.9	1.000011

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78
 ASCENSION NO. 100 0730 HRS MDT

UPPER AIR DATA
 2370030100
 JALLEN
 TABLE V. (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT DEGREES	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
7900.0	30.3	-52.7			47.9	578.4	85.2	35.9	1.000011
7950.0	29.6	-52.3			46.7	579.0	86.2	36.3	1.000010
8000.0	28.9	-52.0			45.6	579.3	88.2	36.3	1.000010
8050.0	28.3	-51.8			44.5	579.7	90.2	36.3	1.000010
8100.0	27.6	-51.5			43.4	580.0	91.6	36.3	1.000010
8150.0	27.0	-51.3			42.4	580.3	92.5	36.2	1.000009
8200.0	26.4	-51.0			41.3	580.6	93.3	36.1	1.000009
8250.0	25.8	-50.8			40.4	581.0	94.5	35.8	1.000009
8300.0	25.2	-50.5			39.4	581.3	96.4	34.8	1.000009
8350.0	24.6	-50.3			38.4	581.6	98.4	33.8	1.000009
8400.0	24.0	-50.0			37.5	582.0			1.000008
84500.0	23.5	-49.8			36.6	582.3			1.000008
8500.0	22.9	-49.5			35.7	582.6			1.000008
8550.0	22.4	-49.3			34.9	582.9			1.000008
8600.0	21.9	-49.0			34.0	583.3			1.000008

STATION ALTITUDE 4051.00 FEET MSL
 25 AUG. 78 0730 HRS MDT
 ASCENSION NO. 100

MANDATORY LEVELS
 2370030100
 JALLEN
 TABLE VI.

GEODETIC COORDINATES
 33.16712 LAT DEG
 106.49511 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND SPEED KNOTS
850.0	5041.	15.5		165.9	3.2	
800.0	6716.	13.2		169.1	6.4	
750.0	8484.	10.8		199.5	6.6	
700.0	10358.	8.2		336.9	.8	
650.0	12348.	4.3		10.1	9.3	
600.0	14465.	0.0		39.7	10.5	
550.0	16733.	-3.8		7.1	9.1	
500.0	19180.	-8.2		48.9	3.4	
450.0	21836.	-13.0		272.5	6.2	
400.0	24756.	-18.8		256.9	7.3	
350.0	27978.	-25.3		211.6	22.5	
300.0	31588.	-34.0		206.7	29.3	
250.0	35686.	-44.5		210.5	41.4	
200.0	40462.	-56.4		218.6	51.2	
175.0	43214.	-59.7		237.3	41.4	
150.0	46356.	-62.7		240.3	25.1	
125.0	49996.	-69.3		197.0	7.4	
100.0	54348.	-68.1		326.4	1.2	
80.0	58737.	-66.0		58.3	9.3	
70.0	61421.	-62.0		83.2	8.8	
60.0	64573.	-59.6		78.0	17.8	
50.0	68309.	-60.3		94.8	19.8	
40.0	72892.	-58.6		88.2	20.2	
30.0	76884.	-52.4		85.0	36.3	
25.0	82769.	-50.4		96.7	34.6	

TABLE VII
AUG. 25 0820 HRS MDT
ASSENSION 1.0. 250
3439.00 FLEET NO. 250
WHITE SANDS

SIGNIFICANT LEVEL DATA
25000.0550
WHITE SANDS
TABLE VII.

GEODETIC COORDINATES
32.49043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MILLIBARS MSL FELT	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
882.4	3969.0	19.7	68.0
873.2	4308.7	18.7	66.0
850.6	5008.6	17.0	46.0
760.6	6125.0	11.6	79.0
723.6	953.8	9.4	7.7
700.0	1046.1	8.4	5.5
647.0	12529.3	4.4	3.6
518.0	16427.3	-5.1	-6.5
300.0	19341.0	-5.6	-10.9
494.6	19622.0	-5.9	-14.1
479.4	20444.2	-7.0	-14.4
444.0	22545.7	-11.7	-17.1
419.0	23742.0	-14.7	-18.5
400.0	24976.3	-18.0	-26.7
370.0	26844.1	-21.0	-25.0
300.0	31055.8	-32.7	-37.0
294.4	32332.0	-33.6	-39.7
272.2	34095.0	-38.0	-43.0
261.4	35000.9	-40.8	-47.3
250.0	36001.6	-43.1	-49.6
200.0	40327.5	-55.0	-54.0
177.3	42277.5	-59.9	-63.0
165.4	44700.0	-59.9	-67.6
150.0	45385.5	-61.9	-62.3
150.0	46734.2	-62.3	-63.0
144.6	47955.5	-63.0	-67.6
127.4	50052.5	-70.9	-70.9
113.4	52345.9	-70.9	-70.9
103.0	54260.0	-69.3	-69.3
100.0	54500.1	-69.3	-69.3

STATION NUMBER 3459.00 FELT 1952
45 AUG. 75 0820 HRS MDT
SUBDIVISION 000 000

SIGNIFICANT LEVEL DATA
2570040550
WHITE SANDS
TABLE VII. (CONT)

GEODETIC COORDINATES
32°40.043 LAT DEG
106°37.033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALITUDE MILES - FELT	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
94.0	68040.5	-68.9	
87.0	57442.7	-65.7	
84.2	56242.9	-66.1	
70.0	51963.6	-61.3	
59.0	55647.6	-59.1	
50.0	60349.9	-59.4	
30.0	79640.9	-51.0	
25.0	82952.3	-48.9	

TRANSIT ALTIMETER 339.00 FEET MS-
25 AUG. 73 0820 HRS MDT
ASCENSION ISL. 220

TABLE VIII.

GEODETIC COORDINATES
32°40'043 LAT DEG
106°37'033 LONG DEG

TRAIL ALTITUDE 3959.90 FEET MSL
25 AUG. 70 0820 HRS MDT
ASCENSION NO. 550

UPPER AIR DATA
2270020505
WHITE SANDS
TABLE VIII. (CONT)

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND NOISES	WIND DATA DIRECTION DEGREES (IN)	SPEED KNOTS	INDEX OF REFRACTION
16500.0	5420.5	-5.1	33.1	059.0	638.0	141.7	6.9	1.000169
17000.0	5260.7	-5.4	75.0	057.7	638.2	152.9	4.6	1.000163
17500.0	4999.9	-5.3	12.7	049.3	637.0	181.0	2.8	1.000156
20000.0	4977.4	-6.7	14.2	044.6	636.4	211.3	2.6	1.000153
20500.0	4760.0	-7.0	14.9	056.3	635.2	236.0	3.2	1.000150
21000.0	4686.7	-6.7	13.5	045.0	619.7	235.9	3.0	1.000145
21500.0	4599.5	-9.7	22.7	33.7	607.4	241.4	2.8	1.000141
22000.0	4500.6	-10.6	48.0	22.3	597.0	240.6	2.9	1.000136
22500.0	4410.8	-11.6	26.0	11.0	538.0	251.5	3.0	1.000133
23000.0	4355.1	-12.6	37.0	10.4	579.4	626.7	248.6	3.9
23500.0	4244.5	-14.0	39.2	10.6	570.5	627.2	245.5	5.0
24000.0	4149.1	-15.3	34.6	17.1	561.9	625.7	239.8	6.6
24500.0	4074.8	-16.7	29.5	31.9	553.6	624.1	233.6	8.9
25000.0	3987.8	-18.0	26.7	46.3	545.3	622.4	228.1	11.0
25500.0	3914.5	-16.8	26.0	52.7	530.0	621.5	218.1	12.6
26000.0	3855.8	-19.6	25.5	59.2	520.6	620.5	210.3	14.5
26500.0	3772.8	-20.4	25.2	65.6	517.7	619.5	205.3	15.3
27000.0	3696.2	-21.4	25.4	69.7	509.0	618.4	200.7	16.2
27500.0	3620.5	-22.5	26.7	70.7	500.6	617.0	202.7	16.9
28000.0	3552.0	-23.7	26.0	71.7	492.0	615.5	205.4	17.5
28500.0	3479.7	-24.9	26.2	70.7	484.7	614.1	205.0	18.6
29000.0	3406.5	-26.0	20.5	65.7	476.9	612.6	205.0	19.8
29500.0	3344.4	-27.2	21.5	64.7	469.2	611.1	202.6	21.4
30000.0	3247.5	-28.4	23.0	63.7	461.0	609.7	200.3	23.2
30500.0	3177.7	-29.5	34.3	62.7	454.2	606.2	199.4	24.9
31000.0	3114.1	-30.7	35.6	61.7	446.9	606.7	199.3	26.5
31500.0	3047.7	-31.8	26.9	60.7	439.7	605.3	199.4	27.6
32000.0	2980.3	-33.0	28.4	59.2	432.5	603.8	199.4	28.3
32500.0	2914.9	-34.2	26.0	55.0	425.2	602.3	199.5	28.6
33000.0	2856.6	-35.6	40.3	57.5	415.0	600.0	194.9	28.5

TRANSIT ALTITUDE 3450.0 FT E7 162
 15 AUG. 70 0820 HRS MDT
 ASCENSION NO. 550

UPPER AIR DATA
 257060000
 "HATE 5A1.03
 0820 HRS MDT
 ASCENSION NO. 550

TABLE VIII. (CONT)

GEOMETRY ALITUDE ASL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	TEMPERATURE WATER DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED SOUND KNOTS	WIND DIRECTION DEGREES (T _W)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
33500.0	279.4	-36.9	-41.0	60.3	411.9	546.0	199.0	28.9	1.000093
34000.0	273.3	-38.3	-42.3	92.5	405.4	597.0	198.5	30.0	1.000091
34500.0	267.3	-39.6	-44.6	56.8	396.7	595.4	197.9	31.4	1.000090
35000.0	261.5	-40.8	-47.3	49.1	392.0	593.9	198.7	33.5	1.000088
35500.0	255.7	-41.9	-48.5	43.5	385.2	592.4	199.7	35.5	1.000086
36000.0	250.0	-43.1	-49.9	48.0	378.6	590.9	202.0	35.9	1.000085
36500.0	244.3	-44.3	-41.7	43.0**	371.9	569.3	205.0	36.4	1.000083
37000.0	238.7	-45.6	-53.9	58.1**	365.4	587.7	207.2	37.1	1.000082
37500.0	233.3	-46.8	-56.1	53.1**	359.0	588.1	208.4	37.8	1.000080
38000.0	227.9	-48.0	-58.5	28.1**	352.7	584.5	210.7	39.0	1.000079
38500.0	222.7	-49.3	-61.1	23.2**	340.3	582.9	212.5	40.7	1.000077
39000.0	217.0	-50.5	-64.0	18.2**	340.5	581.3	214.2	42.3	1.000076
39500.0	212.7	-51.7	-67.3	13.2**	334.0	579.7	215.4	43.1	1.000075
40000.0	207.8	-53.0	-71.6	8.2**	326.8	576.1	216.0	43.9	1.000073
40500.0	203.1	-54.2	-75.5	3.3**	320.1	576.5	218.0	44.2	1.000072
41000.0	198.4	-55.3	-79.3	317.2	574.9	221.0	44.1	1.000071	
41500.0	193.6	-56.3	-81.1	573.0	224.1	43.8	1.000069		
42000.0	189.0	-57.3	-83.0	505.2	572.3	229.1	42.7	1.000068	
42500.0	184.6	-58.5	-84.9	299.3	571.0	234.4	41.8	1.000067	
43000.0	180.2	-59.3	-86.8	295.6	569.0	238.0	38.6	1.000065	
43500.0	175.9	-59.9	-87.7	237.3	566.9	242.1	35.2	1.000064	
44000.0	171.7	-59.9	-88.6	280.4	568.9	244.9	32.2	1.000062	
44500.0	167.6	-59.9	-89.5	272.7	566.9	246.3	29.4	1.000061	
45000.0	163.5	-60.3	-90.4	267.7	566.2	247.4	26.2	1.000060	
45500.0	159.6	-61.2	-91.3	262.3	567.2	249.6	21.9	1.000058	
46000.0	155.7	-62.0	-92.2	256.9	566.2	243.4	17.6	1.000057	
46500.0	152.0	-62.2	-93.1	250.9	565.9	233.0	12.9	1.000056	
47000.0	148.3	-62.6	-93.8	245.3	565.3	211.9	9.1	1.000055	
47500.0	144.7	-63.1	-94.5	246.0	564.0	179.0	6.0	1.000053	
48000.0	141.1	-63.8	-95.2	234.8	563.7	160.0	9.5	1.000052	

** AT LAST ONE ASSURED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3359.00 FEET MSL
25 AUG. 70 0820 HRS MDT
ASCENSION NO. 250

UPPER AIR DATA
237000Z
WHITE SANDS
TABLE VIII. (CONT.)

GEODETIC COORDINATES
32°40.043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES (TR.)	SPEED KILOTS	INDEX OF REFRACTION
45500.0	137.7	-64.7			230.1	562.5	150.7
49000.0	134.3	-65.0			225.4	561.2	154.6
49500.0	124.0	-66.6			220.8	559.9	158.5
50000.0	127.7	-67.5			216.4	558.7	162.1
50500.0	124.5	-68.2			211.7	557.7	171.0
51000.0	121.4	-69.0			207.2	556.7	164.3
51500.0	118.4	-69.7			202.7	555.7	199.3
52000.0	115.4	-70.4			196.3	554.7	200.3
52500.0	112.5	-70.9			190.6	554.0	202.0
53000.0	109.7	-70.9			186.9	564.0	196.6
53500.0	106.9	-70.9			184.1	554.0	255.0
54000.0	104.2	-70.9			179.5	554.0	33.0
54500.0	101.6	-70.4			174.3	552.1	17.0
55000.0	99.0	-69.2			169.2	550.3	21.4
55500.0	96.5	-69.1			164.6	550.3	16.1
56000.0	94.1	-68.9			159.5	550.8	10.9
56500.0	91.8	-67.8			155.7	550.2	15.7
57000.0	89.5	-66.7			151.6	559.6	30.6
57500.0	87.3	-65.7			149.0	561.1	40.2
58000.0	85.1	-66.0			143.2	560.7	57.0
58500.0	83.1	-65.7			139.5	561.1	65.6
59000.0	81.0	-65.1			135.7	561.9	73.4
59500.0	79.1	-64.5			132.0	562.6	61.6
60000.0	77.1	-63.3			126.4	563.7	90.9
60500.0	75.2	-63.2			124.6	564.5	99.0
61000.0	73.4	-63.1			121.4	562.4	104.7
61500.0	71.1	-62.5			119.0	560.2	110.6
62000.0	69.9	-61.9			114.9	567.1	107.2
62500.0	68.9	-61.3			114.9	567.1	107.5
63000.0	67.2	-61.0			112.0	567.4	107.7
63500.0	66.6	-60.7			109.2	567.5	102.2

STATION ALTITUDE 3489.00 FEET MS-
25 AUG. 76 0820 HRS MDT
ASCENSION ISL. 550

UPPER AIR DATA
25700 CLOUDS
WHITE CLOUDS

TABLE VIII. (CONT.)

GEODETIC COORDINATES 32°40'04.3 LAT DEG 106°37'03.3 LON DEG	REL. HUM. PERCENT	TEMPERATURE AIR TEMP. C	DEVIANCE AIR PRESSURE MILIBARS	REFRACTION INDEX OF REFRACTION
32500.0	760.4	100.4	569.2	1.000024
34000.0	755.4	100.7	568.0	1.000023
34500.0	751.9	101.1	569.0	1.000023
35000.0	750.4	98.5	569.3	1.000022
35500.0	749.0	96.0	569.7	1.000021
36000.0	747.5	95.7	570.0	1.000021
36500.0	746.2	91.4	569.9	1.000020
37000.0	744.8	89.3	569.8	1.000020
37500.0	743.5	87.4	569.8	1.000019
38000.0	742.2	85.1	569.7	1.000019
38500.0	741.0	83.1	569.8	1.000019
39000.0	740.3	81.1	569.7	1.000018
39500.0	739.0	79.4	570.2	1.000018
40000.0	737.5	77.1	570.7	1.000017
40500.0	736.0	75.1	571.2	1.000017
41000.0	734.4	73.2	571.7	1.000016
41500.0	732.3	71.4	572.3	1.000016
42000.0	730.2	69.6	572.8	1.000015
42500.0	728.2	67.9	573.3	1.000015
43000.0	726.0	66.1	573.8	1.000015
43500.0	723.9	64.3	574.3	1.000014
44000.0	721.3	62.9	574.8	1.000014
44500.0	718.7	61.3	575.3	1.000014
45000.0	716.0	59.7	575.9	1.000013
45500.0	713.4	58.0	576.4	1.000013
46000.0	710.7	56.8	576.9	1.000013
46500.0	708.0	55.3	577.4	1.000012
47000.0	705.3	54.0	577.9	1.000012
47500.0	702.6	52.7	578.4	1.000012
48000.0	700.0	51.3	578.9	1.000011

STATION ALTITUDE 3,889.00 FEET MSL
 25 AUG. 78 0820 HRS MDT
 ASCENSION 1.0. 350

UPPLR AIR DATA
 2570020500
 WHITE SANDS
 TABLE VIII. (CONT)

GEOMETRIC PRESSURE ALTIMETER INCHES F.L.E.	TEMPERATURE IN DEGREES CENTIGRADE	KEL.HUM. PERCENT	SPEDS OF SOUND METER KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
7889.0	51.7	51.9	50.0	579.4	100.0	1.000011
7900.0	51.0	51.5	46.7	580.0	102.4	1.000011
7950.0	50.3	51.1	47.5	580.5	104.5	1.000011
8000.0	49.6	50.8	46.3	580.9	105.6	37.3
8050.0	49.9	50.5	45.2	581.3	106.7	36.2
8100.0	49.2	50.2	44.1	581.8	107.7	34.9
8150.0	47.6	49.8	43.0	582.2	109.6	32.9
8200.0	27.0	49.5	42.0	582.6	111.7	31.9
8250.0	20.3	49.2	41.0	583.0		1.000009

STATION ALTITUDE 3,89.00 FEET MSL
 25 AUG. 78 0820 HRS MDT
 ASCENSION NO. 550

MANDATORY LEVELS
 25700E0550U
 WHITE SANDS
 TABLE IX.

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	WIND DATA	
				AIR DEWPOINT CENTIGRADE	DIRECTION DEGREES (TN) SPEED KNOTS
850.0	5065.	17.0	95.	184.2	20.6
800.0	6754.	14.0	80.	200.1	4.6
750.0	8544.	11.0	62.	245.4	4.2
700.0	10420.	8.4	5.5	357.5	1.3
650.0	12427.	4.0	3.2	6.1	0.2
600.0	14359.	1.2	0.3	02.6	2.5
550.0	16846.	-2.5	-3.7	92.	1.00.1
500.0	19314.	-5.6	-10.9	00.	108.7
450.0	22004.	-10.7	-23.4	22.	246.9
400.0	24934.	-15.0	-26.7	46.	229.0
350.0	28174.	-24.2	-28.5	67.	17.9
300.0	31804.	-32.7	-37.0	60.	199.4
250.0	35922.	-43.1	-49.0	48.	202.4
200.0	40727.	-55.0		200.1	44.1
175.0	43492.	-59.9		242.8	34.7
150.0	46030.	-62.3		225.2	10.9
125.0	50285.	-68.1		168.7	10.3
100.0	54635.	-69.3		23.7	9.2
80.0	59050.	-64.8		70.9	11.2
70.0	61749.	-61.3		107.5	15.2
60.0	64904.	-59.5		91.0	17.7
50.0	68649.	-59.4		84.3	10.0
40.0	73274.	-55.7		75.1	24.7
30.0	79340.	-51.0		105.1	38.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4940.00 FEET MSL
25 AUG. 78
ASCENSION NO. 192 0930 HRS MDT

SIGNIFICANT LEVEL DATA
2370040192
STATION
TABLE X.

GEODETIC COORDINATES
33° 81' 92" LAT DFG
106° 66' 50" LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPPOINT CENTIGRADE	REL. HUM. PERCENT
854.3	4940.0	21.5	14.9	66.0
850.0	5065.4	18.6	13.0	69.3
820.8	6007.1	16.0	13.5	45.0
796.3	7900.0	12.8	9.3	79.0
736.3	9082.3	11.8	3.8	58.0
700.0	10407.3	9.0	2.3	63.0
619.3	13701.1	1.5	-2.3	76.0
516.8	18491.1	-6.0	-15.5	47.0
500.0	19359.8	-7.7	-15.6	53.0
446.8	22165.2	-14.0	-24.6	40.0
429.5	23168.5	-15.8	-22.3	57.0
400.0	24922.9	-19.1	-30.7	35.0
375.2	26471.2	-23.3	-31.0	49.0
366.2	27001.0	-24.7	-28.6	70.0
350.3	28122.9	-25.5	-29.0	68.0
331.6	2943.3	-27.6	-38.0	36.0
318.6	30354.5	-30.3	-43.5	26.0
300.0	31768.0	-33.7	-40.9	48.0
278.6	33445.8	-37.9	-47.1	37.0
250.0	35607.5	-44.1	-50.7	47.0
200.0	40597.7	-55.4		
171.3	43930.3	-58.5		
167.3	44420.3	-58.2		
157.3	45608.1	-62.0		
150.0	46600.2	-60.0		
124.3	5043.1	-70.0		
100.0	5474.9	-67.9		
89.6	56827.0	-68.3		
75.6	60274.2	-60.9		
70.0	61955.7	-61.5		

SATION ALTITUDE 4440 FEET MSL
25 AUG. 78 0930 HRS MDT
ASCENSION NO. 192

SIGNIFICANT LEVEL DATA
2070040142
STATION
TABLE X. (CONT)

GEODETIC COORDINATES
33°01'20" LAT DEG
106°06'50" LON DEG

PRESSURE MILLIBARS	SOUNDING ALTITUDE METERS	TEMPERATURE		
		AIR DEGREES	DEGREES CENTIGRADE	DEWPOINT PERCENT
50.0	68307.3	-58.9		
44.3	71348.3	-58.7		
39.3	75354.3	-55.2		
35.0	75819.2	-56.1		
30.0	79574.2	-51.5		
26.0	86347.0	-49.3		
13.3	97351.3	-41.9		
10.8	102004.6	-41.9		

STATION ALTITUDE 4940.0 FEET MSL
 25 AUG. 78 0930 HRS MDT
 ASCENSION ISL. 132°

UPPER AIR DATA
 2370040192
 STALLION
 TABLE XI.

GEODETIC COORDINATES
 33.01920 LAT DEG
 106.66501 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE millibars	AIR DEGREES	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4940.0	894.3	21.5	14.9	66.0	1002.5	671.2	200.0	8.0	1.000297
5000.0	852.5	20.4	14.1	67.3	1004.6	669.8	199.3	8.0	1.000295
5500.0	837.5	17.6	13.3	75.8	990.5	660.0	193.9	8.6	1.000291
6000.0	822.5	16.2	13.5	83.9	983.6	665.0	189.3	9.2	1.000289
6500.0	808.1	15.3	12.5	83.6	969.4	663.9	194.5	9.8	1.000282
7000.0	793.8	14.4	11.4	82.1	955.3	662.6	205.0	10.4	1.000275
7500.0	779.6	13.6	10.3	80.5	941.4	661.7	211.6	9.0	1.000268
8000.0	765.7	12.8	9.2	78.6	927.6	660.7	222.7	6.5	1.000261
8500.0	752.0	12.3	6.8	69.1	913.1	659.9	253.9	3.9	1.000250
9000.0	733.5	11.9	4.3	59.6	898.8	659.1	307.8	4.9	1.000239
9500.0	720.2	11.0	3.4	59.5	885.6	658.0	329.3	8.1	1.000234
10000.0	714.0	9.9	2.9	61.3	872.7	650.8	334.0	9.9	1.000230
10500.0	699.1	8.9	2.3	63.1	860.1	655.6	337.4	11.1	1.000226
11000.0	690.3	7.8	1.7	65.1	847.8	654.2	340.5	11.6	1.000222
11500.0	673.6	6.6	1.0	67.1	835.6	652.9	343.6	12.1	1.000219
12000.0	661.2	5.5	.3	69.0	823.7	651.5	347.1	12.2	1.000214
12500.0	647.0	4.4	-4	71.0	811.9	650.1	352.6	11.2	1.000210
13000.0	637.1	3.2	-1.1	73.0	800.3	648.7	2.2	10.1	1.000206
13500.0	625.3	2.1	-1.9	75.0	786.9	647.4	15.8	9.3	1.000202
14000.0	612.7	1.1	-2.9	74.5	777.1	640.2	28.4	9.5	1.000198
14500.0	602.0	.3	-4.2	71.5	764.7	645.2	38.2	9.4	1.000193
15000.0	590.6	-5.6	82.4	752.6	644.2	45.4	8.4	1.000184	
15500.0	579.4	-1.3	-6.3	65.3	740.7	643.1	44.6	7.0	1.000184
16000.0	569.5	-2.1	-8.3	62.3	728.9	642.1	59.3	5.4	1.000179
16500.0	557.7	-2.6	-9.7	59.2	717.3	641.1	21.0	5.3	1.000175
17000.0	547.1	-3.6	-11.1	56.1	705.9	640.1	8.4	5.6	1.000171
17500.0	539.6	-4.4	-12.5	53.1	694.7	639.2	8.6	5.7	1.000167
18000.0	529.6	-5.2	-14.0	50.0	683.7	638.2	9.7	5.5	1.000163
18500.0	519.9	-6.0	-15.5	47.1	672.8	637.4	12.3	4.8	1.000160
19000.0	509.7	-7.0	-15.5	50.6	662.3	636.0	2.7	4.3	1.000157

STATION ALTITUDE 4340.00 FEET MSL
 15 AUG. 75 0930 HRS MDT
 ASCENSION NO. 422

UPPER AIR DATA
 2070040192
 STATION
 TABLE XI. (CONT.)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE INCHES OF MERCURY	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY CM/CUBIC METER	WIND DATA DIRECTION DEGREES (IN) WIND SPEED KNOTS	INDEX OF REFRACTION
19500.0	496.6	-8.1	52.3	652.6	634.7	4.1
20000.0	467.1	-9.2	50.0	642.1	633.4	4.5
20500.0	477.6	-10.3	47.7	632.4	632.0	5.0
21000.0	450.2	-11.4	40.0	622.5	620.9	5.0
21500.0	426.4	-12.5	43.1	613.0	629.2	4.1
22000.0	400.1	-13.6	42.4	603.0	627.9	2.2
22500.0	444.2	-14.6	45.4	593.9	626.7	4.2
23000.0	432.4	-15.5	42.0	564.1	625.6	5.4
23500.0	423.6	-16.4	23.6	574.6	624.5	5.3
24000.0	415.3	-17.4	26.0	46.6	582.2	623.3
24500.0	400.9	-18.3	23.4	40.5	555.9	622.1
25000.0	398.7	-19.3	30.6	35.7	547.0	620.8
25500.0	390.0	-20.7	30.0	40.2	538.7	619.4
26000.0	382.7	-22.0	30.7	44.7	530.6	617.5
26500.0	374.9	-23.4	30.8	50.0	522.6	615.9
27000.0	367.1	-24.0	28.8	67.8	514.2	614.4
27500.0	359.5	-25.0	29.0	69.2	504.5	613.8
28000.0	352.1	-25.4	29.5	68.2	494.6	612.4
28500.0	344.8	-26.1	31.8	58.6	486.0	612.5
29000.0	337.6	-26.9	34.9	46.2	477.5	611.4
29500.0	330.6	-27.8	36.5	55.4	469.4	610.2
30000.0	323.6	-28.5	41.3	29.6	462.2	608.4
30500.0	316.8	-30.7	42.0	28.3	455.0	606.7
31000.0	310.1	-31.9	41.9	36.0	447.6	605.2
31500.0	303.5	-33.1	41.4	43.6	440.2	603.7
32000.0	297.0	-34.5	41.7	29.5	435.4	602.4
32500.0	290.6	-35.5	43.0	30.7	425.9	600.0
33000.0	284.3	-36.6	45.4	39.9	416.9	599.0
33500.0	278.1	-38.0	47.2	37.2	414.1	597.4
34000.0	272.0	-39.3	47.9	39.3	405.4	595.0

STATION ALTITUDE 4740.00 FEET
25 AUG. 78 0930 HRS MDT
ASCENSION IS.

UPPER AIR DATA
2-7004019E
STATION
TABLE XI. (CONT.)

GEODETIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

GEODETIC ALTITUDE MSL FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR DEGREES C	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INFLUX OF REFRACTION
24500.0	298.0	-40.6	-48.6	41.3	398.4	594.2	204.7	43.2
25000.0	290.1	-41.3	-49.3	43.4	394.7	592.5	204.4	45.1
25500.0	284.4	-43.1	-50.1	45.4	385.2	590.9	204.2	46.9
26000.0	248.7	-44.4	-51.2	45.9*	378.7	589.3	206.2	46.2
26500.0	245.0	-45.5	-53.2	41.0**	371.9	587.6	207.7	49.4
27000.0	237.4	-46.7	-55.3	36.1**	365.3	586.2	206.9	50.3
27500.0	232.0	-47.9	-57.0	31.2**	358.7	584.7	210.1	50.9
28000.0	229.7	-49.1	-59.3	26.4**	352.4	583.2	211.5	50.5
28500.0	221.5	-50.2	-62.5	21.5**	346.1	581.7	213.3	50.2
29000.0	218.4	-51.4	-65.4	16.6**	340.0	580.1	215.8	50.3
29500.0	211.4	-52.6	-62.9	11.7**	333.9	578.6	218.4	50.3
30000.0	208.6	-53.8	-73.5	6.8**	326.0	577.0	221.6	49.9
30500.0	204.8	-54.9	-62.2	1.9**	322.4	575.0	224.7	49.7
31000.0	197.1	-55.7			315.8	574.5	228.4	49.4
31500.0	192.5	-56.2			309.0	573.9	231.5	49.2
32000.0	187.9	-56.6			302.3	573.2	234.9	47.7
32500.0	183.5	-57.1			295.8	572.0	233.6	46.2
33000.0	179.1	-57.6			289.5	572.0	240.4	41.4
33500.0	174.9	-58.1			283.3	571.3	241.0	35.1
34000.0	170.7	-58.5			277.0	570.6	240.0	29.6
34500.0	166.7	-58.4			270.4	570.9	233.6	25.1
35000.0	162.7	-59.9			265.6	568.9	226.8	21.8
35500.0	158.7	-61.4			261.4	566.9	223.5	20.3
36000.0	154.9	-61.6			255.1	566.7	218.8	18.7
36500.0	151.2	-60.8			246.0	567.7	208.1	16.9
37000.0	147.5	-61.4			242.7	566.6	195.4	15.7
37500.0	143.9	-62.7			238.1	565.2	186.7	17.3
38000.0	140.3	-63.9			233.6	563.5	180.2	19.4
38500.0	136.9	-65.2			229.3	561.8	181.0	20.2
39000.0	133.5	-66.4			225.0	560.1	180.2	20.1

* AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION NO. 11124 440000 FLEET MS-
25 AUG. 75 0930 HRS MDT
ASCENSION ISL. 152

UPPLR AIR DATA
237004U 25
TABLE XI. (CONT)

GEODETIC COORDINATES
33.81920 LAT DEG
106.66501 LON DFG

GEOMETRIC ALTITUDE IN SL FLEET	PRESSURE IN MILLIBARS	TEMPERATURE IN DEGREES CELSIUS	AIR DENSITY CENTIGRASE	REL.HUM. PERCENT	REL.HUM. GM/CUBIC METER	DEPTH OF SOUND IN FEET	WIND DIRECTION DEGREES (TH)	WIND SPEED IN KNOTS	INDEX OF REFRACTION
49500.6	130.2	-67.7	220.8	558.4	191.4	20.2	1.000049		
29000.0	127.0	-63.9	216.0	550.7	198.0	18.1	1.000048		
29500.0	125.9	-70.0	212.4	555.3	206.2	16.3	1.000047		
31000.0	120.8	-69.7	206.8	555.6	212.1	13.6	1.000046		
31500.0	117.3	-69.5	201.4	556.0	213.9	9.3	1.000045		
32000.0	114.6	-69.2	196.1	550.3	217.3	5.1	1.000044		
32500.0	111.9	-69.0	191.0	556.7	207.8	1.3	1.000043		
33000.0	109.1	-68.7	186.0	557.0	46.2	2.7	1.000041		
33500.0	106.4	-68.5	181.1	557.3	33.8	2.9	1.000040		
34000.0	103.7	-68.3	176.4	557.7	15.7	2.6	1.000039		
34500.0	101.1	-68.0	171.8	556.0	351.4	2.6	1.000038		
35000.0	98.6	-68.0	167.4	558.1	329.0	3.3	1.000037		
35500.0	96.0	-66.0	163.3	557.9	320.6	4.3	1.000036		
36000.0	93.6	-68.1	159.3	557.8	5.5	5.8	1.000035		
36500.0	91.4	-68.2	155.4	557.7	18.6	8.8	1.000035		
37000.0	89.2	-68.0	151.4	558.0	31.0	10.4	1.000034		
37500.0	87.0	-66.9	146.9	559.5	43.9	11.0	1.000033		
38000.0	84.9	-65.8	142.0	560.9	54.5	11.9	1.000032		
38500.0	82.6	-64.7	136.4	562.4	67.2	10.7	1.000031		
39000.0	80.7	-63.7	134.3	563.9	81.0	10.0	1.000030		
39500.0	78.8	-62.6	130.3	565.3	92.7	10.7	1.000029		
40000.0	76.8	-61.5	126.5	566.8	97.7	12.3	1.000028		
40500.0	75.0	-61.0	125.1	567.5	101.5	14.0	1.000027		
41000.0	73.2	-61.2	120.2	567.2	101.0	14.3	1.000027		
41500.0	71.4	-61.4	117.4	567.0	99.9	14.4	1.000026		
42000.0	69.7	-61.5	114.7	566.4	98.1	14.4	1.000026		
42500.0	68.0	-61.3	111.8	567.1	95.6	14.1	1.000025		
43000.0	66.4	-61.1	109.0	567.3	88.9	13.9	1.000024		
43500.0	64.6	-60.9	106.5	567.0	83.4	13.7	1.000024		
44000.0	63.2	-60.7	105.7	567.0	89.7	13.5	1.000023		

STATION ALTITUDE 4940.00 FEET MSL
 25 AUG. 78 0930 HRS MDT
 ASCENSION 1.0. 142

UPPER AIR DATA
 2370040192
 STALLION
 TABLE XI. (CONT)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TIN)	SPEED KNOTS	INDEX OF REFRACTION
84500.0	64.7	-60.5	101.1	568.4	92.0	13.1	1.000023	
85000.0	60.2	-60.3	98.9	566.3	100.0	12.4	1.000022	
85500.0	58.8	-60.2	96.2	568.6	109.4	11.9	1.000021	
86000.0	57.4	-60.0	93.8	566.6	111.9	12.0	1.000021	
86500.0	56.0	-59.8	91.4	569.1	112.6	12.3	1.000020	
87000.0	54.7	-59.6	89.2	569.3	110.0	12.7	1.000020	
87500.0	53.4	-59.4	87.0	569.6	102.6	13.3	1.000019	
88000.0	52.1	-59.2	84.8	569.8	95.4	14.1	1.000019	
88500.0	50.8	-59.0	82.7	570.1	92.6	14.6	1.000018	
89000.0	49.6	-58.9	80.7	570.3	90.9	15.0	1.000018	
89500.0	48.4	-58.8	78.7	570.3	89.6	15.4	1.000018	
90000.0	47.3	-58.3	76.8	570.4	89.1	15.5	1.000017	
90500.0	46.1	-58.3	75.0	570.4	88.5	15.6	1.000017	
91000.0	45.1	-58.7	73.2	570.5	86.0	16.2	1.000016	
91500.0	44.0	-58.5	71.4	570.8	82.9	17.2	1.000016	
92000.0	42.9	-57.8	69.5	571.7	79.5	18.3	1.000015	
92500.0	41.9	-57.1	67.6	572.6	78.2	21.1	1.000015	
93000.0	40.9	-56.4	65.8	573.6	77.3	24.2	1.000015	
93500.0	40.0	-55.7	64.0	574.5	76.6	27.3	1.000014	
94000.0	39.0	-55.3	62.4	575.4	77.4	29.1	1.000014	
94500.0	38.1	-55.5	61.0	574.8	78.1	30.8	1.000014	
95000.0	37.2	-55.7	59.6	574.4	78.7	32.5	1.000013	
95500.0	36.3	-56.0	58.3	574.1	79.2	32.7	1.000013	
96000.0	35.5	-55.9	56.9	574.2	79.7	33.0	1.000013	
96500.0	34.7	-55.5	55.4	575.1	80.6	33.2	1.000012	
97000.0	33.9	-54.7	54.0	575.9	84.5	33.1	1.000012	
97500.0	33.1	-54.0	52.6	576.7	88.1	33.2	1.000012	
98000.0	32.3	-53.4	51.2	577.5	91.8	33.0	1.000011	
98500.0	31.5	-52.8	49.9	578.3	95.7	32.1	1.000011	
99000.0	30.8	-52.2	48.6	579.1	99.8	31.4	1.000011	

STATION ALTITUDE 4940.00 FEET MSL
25 AUG. 70
ASCENSION NO. 192 0930 HRS MDT

UPPER AIR DATA
2370040192
STATION
TABLE XI. (CONT.)

GEODETIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

GEOMETRIC PRESSURE ALTITUDE MSL FEET	STATION PRESSURE MILLIBARS	TEMPERATURE DEGREES	AIR DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
79500.0	30.1	-51.0		47.3	579.9	102.3		30.5	1.000011
80000.0	29.4	-51.4		46.2	580.1	102.6		29.1	1.000010
80500.0	28.7	-51.3		45.1	580.3	103.4		27.7	1.000010
81000.0	28.1	-51.1		44.1	580.5	103.7		27.1	1.000010
81500.0	27.4	-51.0		43.0	580.6	104.0		26.9	1.000010
82000.0	26.8	-50.9		42.0	580.8	104.2		26.8	1.000009
82500.0	26.2	-50.8		41.0	581.0	103.5		26.4	1.000009
83000.0	25.6	-50.6		40.1	581.1	102.6		26.1	1.000009
83500.0	25.0	-50.5		39.1	581.3	101.7		25.7	1.000009
84000.0	24.4	-50.4		38.2	581.5	95.5		24.6	1.000009
84500.0	23.9	-50.3		37.3	581.6	88.7		23.9	1.000008
85000.0	23.3	-50.1		36.4	581.8	81.9		23.9	1.000008
85500.0	22.8	-50.0		35.6	581.9	77.2		26.5	1.000008
86000.0	22.3	-49.9		34.8	582.1	73.4		29.3	1.000008
86500.0	21.8	-49.8		33.9	582.3	71.4		31.7	1.000008
87000.0	21.3	-49.6		33.1	582.4	72.3		33.0	1.000007
87500.0	20.8	-49.5		32.4	582.6	73.0		34.3	1.000007
88000.0	20.3	-49.4		31.6	582.8	73.9		35.3	1.000007
88500.0	19.8	-49.2		30.9	583.1	75.1		35.6	1.000007
89000.0	19.4	-48.7		30.1	583.6	76.2		35.9	1.000007
89500.0	19.0	-48.3		29.4	584.1	77.3		36.2	1.000006
90000.0	18.5	-47.9		28.7	584.7	78.9		36.9	1.000006
90500.0	18.1	-47.5		28.0	585.2	80.4		37.6	1.000006
91000.0	17.7	-47.1		27.3	585.7	81.9		38.4	1.000006
91500.0	17.3	-46.7		26.6	586.3	83.6		39.3	1.000006
92000.0	16.9	-46.3		26.0	586.8	85.5		40.2	1.000006
92500.0	16.6	-45.9		25.4	587.3	87.4		41.2	1.000006
93000.0	16.2	-45.5		24.8	587.9	89.2		42.2	1.000006
93500.0	15.8	-45.0		24.2	588.4	91.5		41.7	1.000005
94000.0	15.5	-44.6		23.6	588.9	94.0		41.2	1.000005

TRANS. ALTITUDE 4940.0 FEET NSL
5 AUG. 78 0930 HRS MDT
ASCENSION ISL.

UPPER AIR DATA
257004019C
STATION

TABLE XI. (CONT)

GEOGRAPHIC COORDINATES
33.81920 LAT DEG
106.66501 LON DEG

GEOMETRIC ALTITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GW/CUBIC METER	SOUND SPEED IN FEET PER SEC	WIND DATA DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
94500.0	15.1	-44.2			23.0	569.4	90.0	40.8	1.000005
95000.0	14.9	-43.8			22.5	590.0	98.0	39.8	1.000005
95500.0	14.5	-43.4			21.9	590.5	100.7	38.2	1.000005
96000.0	14.1	-43.0			21.4	591.0	102.7	36.7	1.000005
96500.0	13.8	-42.6			20.9	591.0	105.0	35.1	1.000005
97000.0	13.5	-42.2			20.4	592.1	105.4	34.6	1.000005
97500.0	13.2	-41.9			19.9	592.4	107.7	34.1	1.000004
98000.0	12.9	-41.9			19.4	592.4	109.1	33.6	1.000004
98500.0	12.6	-41.9			19.0	592.4	110.5	33.1	1.000004
99000.0	12.3	-41.9			18.6	592.4	112.0	32.6	1.000004
99500.0	12.1	-41.9			18.2	592.4	113.0	32.1	1.000004
100000.0	11.8	-41.9			17.6	592.4	115.2	31.6	1.000004
100500.0	11.5	-41.9			17.4	592.4			1.000004
101000.0	11.3	-41.9			17.0	592.4			1.000004
101500.0	11.0	-41.9			16.6	592.4			1.000004
102000.0	10.6	-41.9			16.3	592.4			1.000004

25 AUG. 78 0930 HRS MDT
ASCENSION I.O. 142
TATIANA AIRCRAFT 4740.00 FLEET No. 1

MANDATORY LEVELS
257004019c
STATION
TABLE XIII.
ASCENSION I.O. 142

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE			WIND DATA DIRECTION DEGREES (TN)	SPECIFIC HUMIDITY PERCENT	WIND DATA SPEED KNOTS
		DEGREES	AIR DEWPONT	DEGREES CENTIGRADE			
850.0	5030.	13.8	13.0	69.	196.4	8.1	
800.0	6780.	14.6	11.9	63.	201.3	10.2	
750.0	8567.	12.3	6.5	66.	201.3	3.7	
700.0	10450.	9.0	2.3	63.	337.1	11.0	
650.0	12457.	4.5	-4	71.	352.2	11.3	
600.0	14530.	2	-4.4	71.	394.4	9.2	
550.0	16855.	-3.4	-10.7	57.	8.3	5.6	
500.0	19315.	-7.7	-15.3	55.	350.4	4.1	
450.0	21750.	-12.6	-24.0	41.	239.2	2.2	
400.0	24824.	-19.1	-30.7	35.	254.0	9.5	
350.0	28095.	-25.5	-29.7	67.	203.9	22.2	
300.0	31790.	-35.7	-40.9	46.	204.4	32.0	
250.0	35814.	-44.1	-50.7	47.	205.8	47.8	
200.0	40505.	-55.4			226.0	49.5	
175.0	45360.	-58.1			241.0	35.5	
150.0	46530.	-60.6			204.7	16.5	
125.0	50480.	-62.7			202.8	17.0	
100.0	54564.	-67.9			341.3	2.9	
80.0	58934.	-65.3			66.5	10.0	
70.0	61097.	-61.5			99.2	14.4	
60.0	64643.	-60.5			101.3	12.3	
50.0	68585.	-55.9			91.5	14.9	
40.0	73197.	-52.7			76.7	27.0	
30.0	79242.	-51.5			102.3	30.3	
20.0	85134.	-50.5			101.7	23.7	
15.0	87921.	-49.3			74.0	35.5	
10.0	94152.	-44.1			97.1	40.7	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.